

ABSTRACT OF THE DISCLOSURE:

An electrostatic speaker is constructed using a thin flexible membrane as the active member. This membrane is uniformly positioned against at least one printed circuit board containing at least one stator fixed in the PCB. Variations in structure are provided, all including at least one PCB and a membrane. In a preferred embodiment, intermeshing opposing ridges on the PCBs are adjacent to a central vibrating area of the membrane, and serve to position and tension the membrane. Attachment means connect the PCBs together, and electrical connections permit the passage of current to bias the membrane and to drive the stators to vibrate the membrane, producing acoustical output in the sonic or ultrasonic ranges. The invention also relates to the electrostatic speakers produced by this method of manufacture.

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